Recovery Kernel

[illegible]: [illegible]

[illegible], [illegible]

[illegible] Recovery Kernel [illegible] Forced Discontinuance [illegible] — [illegible], [illegible], [illegible] — [illegible]. [illegible]. [illegible], Recovery Kernel [illegible], [illegible] '[illegible]' [illegible]: [illegible] (anhedonia) [illegible]. [illegible], [illegible].

[illegible] 0 — [illegible]: [illegible]

⚠ [illegible]

[illegible], [illegible] EpiNe [illegible]. [illegible], [illegible], [illegible]. [illegible] ات [illegible].

[illegible]:

- [illegible], [illegible] - findahelpline.com [illegible] HOME [illegible] 741741 [illegible], [illegible] 24/7 [illegible].
- [illegible], [illegible], [illegible], [illegible], [illegible]/[illegible] — [illegible]. [illegible], [illegible] 1990 [illegible].
- [illegible], [illegible] - [illegible].
- [illegible]

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Recovery Kernel □□□ □□□□□□□□□ □□□□□□□□□□□ □□□□□□□□□ □□□□□□□ □□□□□: '□□□□□□□ □□□□□ □□□. □□□ □□□□ □□□□ □□□□ □□□□□□ □□□□. □□□ □□□ □□□□□□□□□□□□□ □□□□□ □□ □□□□□□□.' □□ □□□□□ □□□□□ □□□□□□□□ □□□ □□□□□□ □□□□□□□□□□ □□□□□□ □□□ □□□□□□□□□□□ □□□□ □□. □□□□ □□□□ □□□ □□□□ □□□□□□□ □□□□□□□□□□□ □□ □□□□□□□□□□□□□□□ □□ □□□□□□□□□□ □□□□ □□□□□□□ □□□□□-□□□□□□□□□□□ □□□□□ - □□□□□ □□□□-□□□□□□□. □ □□□□□□□ □□□□□ □□ □□□□□□ □□□□□□ □□, □□□□□□□□□ □□ □□□□ □□□ □□□□ □□□□□□ □□□□□□□□□□ □□ □□□, □□ □□□□□□□□□ □□□□□□□ □□□ □□□□□□ □□□□□ □□□ □□□□□□□ □□□□□□□□: □□ '□□□ □□□ □□□ □□ □□□□ □□□□ □□□□□ □□□□' □□□□ □□□□ □□□□□□□. □□□□□□□□ □□□□ □□□□□□□' □□ '□□ □□□ □□□□□□□ □□□□□□ □□□□□□□□□□□ □□□□ 3 □□, □□ □□□ □□□□□.'

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[illegible]-[illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible]? 1940 [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] 2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible]?	[illegible]	[illegible]
	[illegible]	[illegible]; [illegible]	[illegible], [illegible].
[illegible] 1–3	[illegible] D2 [illegible]; [illegible]; [illegible]	[illegible]; [illegible]-[illegible] (PAWS) [illegible]	[illegible] - [illegible]. [illegible].
[illegible] 3–12	[illegible]; BDNF [illegible]; [illegible]	[illegible]; [illegible], [illegible]/[illegible]; [illegible]; [illegible]	[illegible]. [illegible] - [illegible], [illegible].

[illegible] 3 — [illegible]

[illegible]. [illegible]: [illegible], [illegible] - [illegible] '[illegible]' [illegible].

[illegible]

Recovery Kernel [illegible] (Volkow et al.): [illegible] D2 [illegible], [illegible] 12 [illegible] 17 [illegible]. [illegible] (Heinz et al. [illegible] 1 [illegible] D2 [illegible]) [illegible] — [illegible] terminal [illegible], [illegible].

[illegible] 12-17 [illegible], [illegible], [illegible]: [illegible] 90. Recovery Kernel [illegible]

[illegible] [illegible] [illegible] [illegible] — [illegible] 31 [illegible] 60 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] 61 [illegible] 90 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible]?	[illegible] [illegible] [illegible] [illegible] [illegible]
	[illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] ([illegible] Met/Met '[illegible] [illegible]' [illegible]) — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] 8 [illegible] Tier 3 [illegible] [illegible] [illegible] BDNF [illegible] [illegible] [illegible]-[illegible] [illegible] [illegible] [illegible].	[illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
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[illegible] [illegible] [illegible] [illegible] [illegible]	[illegible]
	[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]

⚠ [illegible]

[illegible] 0 [illegible] 0 [illegible]

[illegible] (3) [illegible]

[illegible] 6 — [illegible]

[illegible]	[illegible]	[illegible]
COMT (Val158Met)	[illegible]	Val/Val ('[illegible],' [illegible]) [illegible]
DRD2 / ANKK1 (Taq1A, A1 allele)	D2 [illegible]	A1 [illegible] D2 [illegible] — [illegible] (Reward Deficiency Syndrome). [illegible] ([illegible] 8 [illegible] 'Brain Stack' [illegible]) [illegible]
MAOA (uVNTR)	[illegible]	[illegible]

[illegible]	[illegible] [illegible] [illegible]	[illegible] [illegible]
		[illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
BDNF (Val66Met)	[illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] Met [illegible] [illegible] BDNF [illegible] [illegible] [illegible]. [illegible] [illegible] BDNF [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] Met [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible].
CYP2D6 / CYP2B6	[illegible] [illegible] [illegible] [illegible] [illegible] (bupropion)	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

COMT [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]?

COMT [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] Val/Val [illegible] Met/Met [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

COMT [illegible]	**Meth** [illegible] [illegible]
[illegible]/[illegible] ('[illegible]') — [illegible] [illegible] [illegible] [illegible], [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].
Met/Met ('[illegible] [illegible]' / '[illegible]') — [illegible] [illegible] [illegible], [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] '[illegible]' [illegible] [illegible].

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Heterozygous (Val/Met)	□□□□ □□□□□□□ □□□□ □□□□ □□□□ □□□□□ □□□□□□□□.	□□□□□ □□□□ □□□□ □□□□ □□□□□□□ □□□□□□□□□□ - □□□□□ □□□□□□ □□□□□, □□□□□ □□□□□□□□□ - □□□□□□□□ □□□□□□□□□ □□□□□ □□□□□□□□ □□□□□ □□□□□ □□□□□□.

GABRA2 — '□□□□□□□□' □□□□□□□ □□ □□□□□□ □□□□ □□□□□□□□□ □□ □□ □□□□□ □□□□□ □□□□□

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[illegible], [illegible] — [illegible] (dopamine-pathway) [illegible] (stress-response genes) — [illegible].

[illegible] ([illegible]-[illegible], [illegible]): [illegible] ΔFosB [illegible], [illegible] — [illegible], [illegible] (Nestler, 2001, [illegible]). [illegible] ... [illegible], [illegible]-[illegible]? [illegible]—[illegible], [illegible]—[illegible]. [illegible]; [illegible], [illegible].

[illegible]

[illegible]: [illegible]. Recovery Kernel [illegible]-[illegible] '[illegible]' [illegible] — [illegible], [illegible] ([illegible] 1-3 [illegible], [illegible] 3-6 [illegible], [illegible] 6 [illegible]). [illegible], [illegible] 8 [illegible] Tier 3 [illegible] — [illegible], [illegible].

[illegible]: [illegible]

[illegible] - [illegible], [illegible]. [illegible], [illegible].

[illegible]

[illegible], [illegible]. [illegible].

[illegible]	[illegible], [illegible].
COMT Met/Met ('Sage'/'Worrier' — [illegible], [illegible] [illegible]-[illegible] [illegible]) [illegible],	Recovery Kernel [illegible] (MDPV, alpha-PVP) [illegible]: [illegible] [illegible]-[illegible]

[redacted]	[redacted] [redacted] [redacted] [redacted] [redacted], [redacted].
[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]	[redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted], [redacted] [redacted] [redacted] [redacted] — [redacted] [redacted] — [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted], [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]: [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted], [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted], [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

[redacted] [redacted] [redacted] [redacted] [redacted]?

[redacted] [redacted] [redacted] (COMT rs4680, DRD2/ANKK1 Taq1A) [redacted] [redacted] [redacted] [redacted] [redacted], [redacted] [redacted] [redacted]. [redacted], [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] - [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted], [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

[illegible] [illegible] [illegible] [illegible]

- [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]? → [illegible] [illegible] Warrior COMT [illegible] [illegible] DRD2 [illegible] [illegible].
- [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]? → [illegible] [illegible] Val/Val COMT.
- [illegible] [illegible] [illegible] [illegible] [illegible]? → [illegible] [illegible] DRD2 [illegible] [illegible] [illegible].
- [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]? → [illegible] [illegible] MTHFR [illegible] — [illegible] 8 [illegible] [illegible] [illegible], [illegible] (5-MTHF) [illegible].

[illegible] 7 — [illegible] [illegible] [illegible]

[illegible]	[illegible] [illegible]	[illegible] [illegible] [illegible]	[illegible] [illegible]
[illegible]	[illegible], [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible]	[illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] 0 [illegible] [illegible] [illegible] [illegible].
[illegible]	[illegible] [illegible], [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible]	[illegible] — [illegible] 2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] 8 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible].	[illegible] [illegible] — [illegible]-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] 1–5 [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible].
[illegible] / IV [illegible] [illegible] [illegible], [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] ([illegible], [illegible]	[illegible] — [illegible] [illegible] 3 [illegible] 12-17 D2 [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
	[illegible])	[illegible]	[illegible]. [illegible]-[illegible].

[illegible] 8 — [illegible]

⚠ [illegible]

[illegible], [illegible]. [illegible] 0 [illegible], [illegible].

[illegible]

[illegible], NAC [illegible] — meth [illegible] dopamine [illegible] cortico-striatal [illegible] glutamate [illegible], [illegible] glutamate [illegible] NMDA receptor [illegible] 3 [illegible], [illegible] REM [illegible], [illegible] (4 [illegible]).

[illegible]	[illegible]
[illegible] ([illegible] 500-1000, [illegible], [illegible])	[illegible] - [illegible] 3-5 [illegible].
NAC ([illegible] 600mg)	[illegible]-[illegible], [illegible] — [illegible], [illegible], [illegible], [illegible] NAC [illegible].
NAD+ ([illegible])	[illegible] DNA [illegible] NAD+ [illegible] — [illegible]. [illegible] IV [illegible]

[illegible]	[illegible]
	[illegible], [illegible]; [illegible], [illegible] (NMN/NR) [illegible]. [illegible] — [illegible] ([illegible], [illegible], [illegible]) [illegible]; NAD+ [illegible], [illegible].
[illegible]-[illegible] ([illegible] 200-400)	NAC [illegible], [illegible], [illegible]-[illegible] (beta-glucuronidase) [illegible]. [illegible], [illegible]. NAC [illegible], [illegible] D-[illegible] — [illegible].
[illegible] ([illegible] 300-400mg, [illegible])	[illegible] NMDA [illegible] receptor [illegible], [illegible] — [illegible]/NMDA [illegible]. [illegible], [illegible] 8 [illegible].
P5P ([illegible]-5-[illegible] - [illegible]6 [illegible], [illegible] 20-50)	P5P [illegible] (GAD) [illegible] GABA [illegible]. [illegible] P5P [illegible], [illegible], [illegible] GABA [illegible] — [illegible]. [illegible] MTHFR [illegible], [illegible] B6 ([illegible]) [illegible] P5P [illegible].
'[illegible]' - [illegible] + DHA + CDP-[illegible]	[illegible]—[illegible].
5-MTHF ([illegible])	[illegible] 6 [illegible] MTHFR [illegible]/[illegible], [illegible].
[illegible], [illegible]	[illegible] 2 [illegible]; [illegible]

[illegible]	[illegible]
[illegible]	[illegible].

⚠ [illegible]

[illegible], [illegible]: [illegible], [illegible] '[illegible]' [illegible] NMDA-[illegible]. [illegible], [illegible], [illegible] — 6 [illegible] (Reward Deficiency Syndrome) [illegible]. [illegible]: IV [illegible] (Spravato, [illegible] FDA [illegible] — [illegible]) [illegible], [illegible] - [illegible]-[illegible], [illegible]. [illegible], [illegible] repair [illegible], IV [illegible], [illegible]; [illegible], [illegible] repair [illegible] ([illegible] 3 [illegible]) [illegible]. [illegible], [illegible]-[illegible].

[illegible] 2 — [illegible]

- [illegible] FDA [illegible] - [illegible] SSRI [illegible], [illegible].
- [illegible], [illegible] 1-5 [illegible] — [illegible], [illegible].
- [illegible] ([illegible] stimulant [illegible] bupropion [illegible]), [illegible] CYP2D6/CYP2B6 [illegible], [illegible] 6 [illegible].

[illegible] 2.5 — '[illegible]': [illegible]

[illegible], [illegible], [illegible] '[illegible]' [illegible]. [illegible]

[illegible], [illegible] — [illegible].

⚠ [illegible]

[illegible]-[illegible]. [illegible], [illegible]. [illegible], [illegible] [illegible].

[illegible]: [illegible] 2 [illegible], [illegible] — [illegible], [illegible], [illegible] — ADHD [illegible], [illegible]. [illegible] ([illegible], [illegible]-[illegible]), [illegible] 3 [illegible], [illegible], [illegible] — [illegible]-[illegible] (Adderall XR) [illegible] — [illegible], [illegible], [illegible].

[illegible]	[illegible]
[illegible] 2 [illegible]/[illegible], [illegible]	[illegible].
[illegible] Tier 1 [illegible] Tier 3 [illegible].	[illegible] 3 [illegible] D2 [illegible], [illegible].
[illegible] - [illegible]: [illegible], [illegible]	[illegible], [illegible] - [illegible], [illegible].

[illegible]

[illegible] ADHD [illegible], [illegible] — [illegible] '[illegible]' [illegible]. [illegible]. [illegible], [illegible], [illegible] ADHD [illegible], [illegible] 6 [illegible] phenotyping [illegible]. [illegible], [illegible] 'ghost scaffolding' [illegible], [illegible].

[illegible] 3 — [illegible] [illegible] [illegible]

[illegible]') [illegible], [illegible] [illegible], [illegible] — [illegible].

- [illegible], [illegible] worth.
- [illegible]. [illegible] 3 [illegible], [illegible].

[illegible] 10 — [illegible], [illegible]

⚠ [illegible]

[illegible], [illegible], [illegible] ([illegible], [illegible], [illegible]), [illegible] ([illegible], [illegible]) [illegible] findahelpline.com [illegible] 1990 [illegible]. [illegible] — [illegible], [illegible], [illegible], [illegible], [illegible] — [illegible] 2 [illegible], [illegible], [illegible], [illegible] [illegible].

[illegible] 11 — [illegible]

[illegible]	[illegible]
Recovery Kernel Meth/Stimulant [illegible], [illegible] 3 ([illegible])	[illegible] 2 [illegible], [illegible] 8 [illegible] 1 [illegible].
Recovery Kernel [illegible], [illegible] 16.4 ([illegible] - [illegible])	Volkow et al. [illegible] Heinz et al. [illegible] 3 [illegible] 12-17 [illegible], [illegible].
Recovery Kernel [illegible], [illegible] 01 ([illegible])	[illegible] 2 [illegible].
Recovery Kernel [illegible], [illegible] 05 ([illegible])	[illegible] 8, [illegible] 3 [illegible] - [illegible], [illegible].
Recovery Kernel [illegible], [illegible] 06 ([illegible])	[illegible], [illegible] 2 [illegible] 2-4 [illegible].
Recovery Kernel [illegible], [illegible] 20 ([illegible]) [illegible] C-28 ('[illegible]')	[illegible] 2 [illegible] 1-3 [illegible] — [illegible]. [illegible], [illegible] 6 [illegible] Warrior COMT [illegible], [illegible].
Recovery Kernel [illegible], [illegible] 16 ([illegible])	[illegible] 3 [illegible] 90 [illegible] - [illegible], [illegible], [illegible], [illegible] 8 [illegible] 3 [illegible]

[illegible]	[illegible]
	[illegible].
Recovery Kernel Chemsex [illegible]	[illegible] (chemsex) [illegible] — [illegible] GHB/meth/mephedrone [illegible] meth [illegible]-[illegible].
Recovery Kernel [illegible]	[illegible] 3 ([illegible]-[illegible]-[illegible]) [illegible]: [illegible]-[illegible] — [illegible].

[illegible] 12 — [illegible]

[illegible]

[illegible]. [illegible]: [illegible], [illegible], [illegible], [illegible] 90 [illegible]. [illegible]. [illegible], [illegible], [illegible].

[illegible] - [illegible]: [illegible]

[illegible] — [illegible] — [illegible]

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